

Miriam F. Lipton, Ph.D.

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EDUCATION

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| Ph.D., History and Philosophy of Science
Oregon State University
<i>Dissertation: "The Struggle for Legitimacy: Soviet Microbiology and the Use of Bacteriophages During the Cold War"</i>
<i>Advisor: Jacob Darwin Hamblin</i> | 2025 |
| M.S., Global Health
Georgetown University
<i>Thesis: "Potential Neglected Tropical Diseases in the Western Pacific Region: Chromoblastomycosis, Snakebites, Tick-Borne Diseases, and Taeniasis/Cysticercosis/Neurocysticercosis"</i> | 2017 |
| M.A., Russian, East European, and Eurasian Studies
University of Oregon
<i>Thesis: "Sex Education and Contraceptive Acceptance: From the Soviet Union to Russia"</i> | 2014 |
| B.A., General Science; Biology; Russian and East European Studies
University of Oregon — Minor: Chemistry Cum Laude | 2010 |

POSTDOCTORAL APPOINTMENTS

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| ORISE Postdoctoral Research Fellow
Air Force Research Laboratory (AFRL) History Office, 711th Human Performance Wing —
Wright-Patterson Air Force Base
U.S. Department of Defense — Administered by Oak Ridge Institute for Science and Education (ORISE) <ul style="list-style-type: none">• Original historical research, analysis, and writing on science and technology activities at AFRL spanning more than 100 years• Generating authoritative historical narratives on Department of the Air Force science and technology for senior AFRL leadership | Sep 2026 – Present |
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WORK EXPERIENCE

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| Senior Essay Reader
Oregon State University — Honors College | Oct 2021 – Jun 2025 |
| Essay Reader
Oregon State University — Honors College | Nov 2020 – Feb 2021 |
| Head Researcher and Writer
Oregon State University — Special Collections and Archives Research Center
paulingblog.wordpress.com | Mar 2019 – Jan 2024 |

Graduate Teaching Fellow Oregon State University — History Department • U.S. and World History courses	Sep 2018 – Jun 2024
Consultant World Health Organization — Western Pacific Regional Office • Neglected Tropical Diseases, Malaria, Risk Management, and COVID-19	May 2017 – Jan 2024
Program Specialist (GS-09, Series 0301) National Institutes of Health — Laboratory of Genitourinary Cancer Pathogenesis	Oct 2015 – Jul 2018
Graduate Teaching Fellow University of Oregon — Russian Department • Spoken Russian and Soviet History courses	Jan 2013 – Mar 2014
IT Support Assistant University of Oregon — Academic Extension	Jan 2012 – Jun 2012
Graduate Teaching Fellow University of Oregon — Chemistry Department • General Chemistry Lab course	Sep 2011 – Dec 2011
Biology Fellow University of Oregon — Biology Department • Diseases of Africa course	Jan 2010 – Jun 2010
Chemistry and Math Tutor University of Oregon — Support Services for Student Athletes	Jan 2009 – Mar 2010
English Language Instructor Communicative Language School — St. Petersburg, Russia	Sep 2007 – May 2008
English Discussion Leader Yesod Jewish Community Center — St. Petersburg, Russia	Sep 2007 – May 2008

PROFESSIONAL CONSULTANCIES

Technical Writer, Editor, and Researcher World Health Organization — Western Pacific Regional Office and Korean Country Office — Neglected Tropical Diseases	2021
Technical Writer World Health Organization — Philippines Country Office — COVID-19 Response	2020–2021
Policy Writer World Health Organization — Western Pacific Regional Office — Risk Management	2018
Special Rapporteur World Health Organization — Western Pacific Regional Office — South Korea — Foodborne Trematode (FBT)/Taeniasis Elimination	2017
Special Rapporteur World Health Organization — Western Pacific Regional Office — China — Schistosomiasis (SCH) Control	2017

Special Rapporteur	2017
World Health Organization — Western Pacific Regional Office — Cambodia — Regional Programme Review Group (RPRG) Conference on Neglected Tropical Diseases (NTDs) and Post Elimination Conference of NTDs	

FELLOWSHIPS, SCHOLARSHIPS, AND AWARDS

Dissertation Completion Award	2025
Graduate School, Oregon State University	
Oregon Lottery Graduate Scholarship	2024
Graduate School, Oregon State University	
Residency Fellowship (<i>declined</i>)	2023
Brocher Foundation	
Open Research Laboratory Summer Research Fellow	2023
University of Illinois Urbana-Champaign	
Sydney Brenner Research Fellowship	2022
Cold Spring Harbor Laboratory	
Residency Fellowship (<i>declined</i>)	2022
Brocher Foundation	
Oregon Lottery Graduate Scholarship	2022
Graduate School, Oregon State University	
Cain Dissertation Fellow	2022
Science History Institute	
Maurice A. Biot Fund Grant-in-Aid	2021
California Institute of Technology	
Oregon Lottery Graduate Scholarship	2021
Graduate School, Oregon State University	
PhD Research Support Grant	2021
American Institute for the History of Pharmacy	
Virtual Four-Month Doctoral Fellowship	2021
Linda Hall Library	
W. Stull Holt Dissertation Fellowship	2021
The Society for Historians of American Foreign Relations	
Small Grant Recipient	2020
American Society for Legal History	
Oregon SYLFF Award for International Research	2020
Ryoichi Sasakawa Young Leaders Fellowship Fund	
Phi Kappa Phi	2020
Oregon State University	
Stephen Straker Memorial Fellowship	2020
Columbia History of Science Group	

Provost Scholarship Oregon State University	2019
Critical Language Scholarship U.S. Department of State — Nizhny Novgorod, Russia	2019
Stephen Straker Memorial Fellowship Columbia History of Science Group	2019
Phi Beta Kappa University of Oregon	2010
Commencement Speaker University of Oregon	2010
Tatiana Gorokhovskaya Scholarship for Excellence in Advanced Russian University of Oregon	2010
Critical Language Scholarship U.S. Department of State — Kaliningrad, Russia	2009
Mortar Board University of Oregon	2008–2010
Council on International Educational Exchange (CIEE) Scholarship University of Oregon	2007
National Society of Collegiate Scholars University of Oregon	2007–2010
Dean's List University of Oregon	2005–2010
Society of College Scholars University of Oregon	2005–2010
Dean's Scholarship University of Oregon	2005–2010

RESEARCH AND PUBLICATIONS

Research Languages

Russian (full professional) and English (native)

Articles / Book Chapters

"Reuse, Repurpose, and Recycle: Bacteriophage and Microbial Surveillance (1921–2023)." *Phages*. Volume 5. No. 1. 2024. <https://doi.org/10.1089/phage.2023.0042>

"Soviet Bad Science: The Microscopic Cold War Battle of Antibiotics." *The Hedgehog*. No. 68. Winter 2022.

"The Soviet Resonance Controversy." *Visions of Linus Pauling*. World Scientific Publishing Company. September 2022 (Chapter 5). <https://doi.org/10.1142/12977>

"Bacteriophages and Cholera: A Story of Soviet Medicine in the Cold War." *Distillations*. October 19, 2021.

Book Reviews

Review of *The Soviet Union's Agricultural Biowarfare Programme: From Ploughshares to Swords* by Anthony Rimmington. *Technology and Culture*. April 2022, Volume 63.

Review of *Cold War Resistance: The International Struggle Over Antibiotics* by Marc Landas. *Social History of Alcohol and Drugs*. Volume 36, Issue 1. 2022.

Review of *Pharmapolitics in Russia: Making Drugs and Rebuilding the Nation* by Olga Zvonareva. *Social History of Alcohol and Drugs*. Volume 35. 2021.

Review of *The Environment and International History* by Scott Kaufman. *Journal of Contemporary History*. Volume 56. 2021.

ORGANIZATIONAL MEMBERSHIP AND ACTIVITIES

Member History of Science Society	Sep 2022 – Jun 2025
Editorial Board Member (In Vivo) <i>Endeavour</i>	Sep 2022 – Jun 2025
Radio Host, Inspiration Dissemination KBVR — Oregon State University	Dec 2021 – Jun 2025
Member Association for Slavic, East European, and Eurasian Studies	Oct 2020 – Jun 2025
Member Society for Historians of American Foreign Relations	Oct 2020 – Jun 2025
Member American Society for Legal History	May 2020 – Dec 2021
Editorial Board Member The Oregon Encyclopedia	May 2020 – Jan 2024

TEACHING EXPERIENCE

Oregon State University

- HST 201: History of the United States (Instructor of Record)
- HST 203: History of the United States (Instructor of Record)
- EAH 411: Perspectives in Environmental Arts and Humanities (Instructor of Record)
- HST 104: World History: Ancient Civilizations (Teaching Assistant)
- HST 103: History of Western Civilization (Teaching Assistant)
- HST 202: History of the United States (Teaching Assistant)

University of Oregon

- RUSS 121: Spoken Russian (Instructor of Record)
- CH 227: General Chemistry Laboratory (Instructor of Record)
- Soviet History (Teaching Assistant, Volunteer)

INVITED TALKS

"It's All in the (Microscopic) Details: Soviet Bacteriophage Therapy After Stalin" Feb 2023
Variable Viruses: The Past, Present, and Future of Bacteriophage Research — University College Dublin

"An Alternative to Antibiotics: Soviet Bacteriophage Therapy and its Role in Cold War Politics" Oct 2022
History of Medicine Lecture Series — University College Dublin

CONFERENCE PRESENTATIONS

"Confirmation Studies: Bacteriophage Genetics and What It Meant for Soviet Science" Jan 2026

Sydney Brenner Fellowship Symposium — Cold Spring Harbor Laboratory

"The DNA of Bacteriophages: The Role of Genetics in Soviet Microbiology" Nov 2024
History of Science Society Annual Meeting — Mérida, Mexico

"The Anti-Antibiotic: Soviet Rejection of Antibiotics in Favor of Alternatives" Mar 2024
MEDIRISC — Medicine, Risks, and Crises Conference — Paris, France

"Better Together?: Soviet Combination Antibiotic and Bacteriophage Therapy" Jun 2023
Ecologies of Health and Disease in Eurasia Workshop — Oslo, Norway

"The Stages of Phages: From Therapy to Genetics, the Changing Values of Bacteriophages in the United States from the 1930s–1960s" May 2022
Environmental Arts and Humanities Annual Conference — Oregon State University

"Penicillin's Promise: The Rise of Resistance and the Fear of its Reality in the 1950s and 1960s" May 2021
Environmental Arts and Humanities Annual Conference — Oregon State University

"What to Do When Bee Poop is the Answer?" Mar 2019
Columbia History of Science Group — Friday Harbor, Washington

"Sex Education and Contraceptive Acceptance: From the Soviet Union to Russia" Apr 2014
Association for Women in Slavic Studies Conference — Atlanta, Georgia

"Cholera in Russia in the Late Nineteenth Century: The Role of the Government, the People, and the Medical Community" Jul 2012
Association for Medical Humanities Annual Conference — Cork, Ireland

INTERNSHIPS

Analyst Jun 2021 – Jan 2022
Federal Bureau of Investigation — Portland Field Office

- Cleared for Top Secret Information and Granted Access to Sensitive Compartmented Information

Intern

Jan 2017 – Mar 2017

World Health Organization — Western Pacific Regional Office, Manila, Philippines

- Malaria, Vectorborne, and Parasitic Diseases Unit. Focused on Malaria frameworks, Global Fund applications, and literature reviews for potential Neglected Tropical Disease (NTD) candidate diseases

Intern

Sep 2012 – Jan 2013

U.S. Department of State — Environment, Science, Technology, and Health Section, Moscow, Russia

- Reported to Washington, D.C. on health and science issues in Russia. Security Clearance

VOLUNTEER EXPERIENCE

Peer Navigator and Message Board Moderator

Jul 2026 – Present

FORCE — Facing Our Risk of Cancer Empowered

WRITINGS

2022

"Horror in Fiction." *Inspiration Dissemination*. May 2, 2022.

"Red, Red, (smoky) Wine." *Inspiration Dissemination*. April 24, 2022.

"M.A. Student Kathleen McHugh Presents at Columbia History of Science Group." *Oregon State History and Philosophy of Science Blog*. March 15, 2022.

"Ph.D. Candidate Presents at American Historical Association Conference (part 2)." *Oregon State History and Philosophy of Science Blog*. March 6, 2022.

"Ph.D. Candidate Presents at American Historical Association Conference (part 1)." *Oregon State History and Philosophy of Science Blog*. March 4, 2022.

"M.A. Student Volunteers as Oregon History Day Judge." *Oregon State History and Philosophy of Science Blog*. March 2, 2022.

"Home Economics as a Science." *Inspiration Dissemination*. February 13, 2022.

"New Review out for Ph.D. Candidate Aimee Dávila Hisey." *Oregon State History and Philosophy of Science Blog*. February 10, 2022.

"M.A. Student Set to Present at Several National Conferences." *Oregon State History and Philosophy of Science Blog*. January 27, 2022.

2021

"Book Review Published by PhD Candidate Aimee Dávila Hisey." *Oregon State History and Philosophy of Science Blog*. November 16, 2021.

"First Year History Master's Students Learn About Professional Development." *Oregon State History and Philosophy of Science Blog*. November 23, 2021.

"Ph.D. Candidate Wins Teaching Award." *Oregon State History and Philosophy of Science Blog*. November 15, 2021.

"A Resonating-Valence-Bond Theory of Metals and Intermetallic Compounds, 1949." *The Pauling Blog*. November 3, 2021.

"The Nature of Intermolecular Forces Operative in Biological Processes, 1940." *The Pauling Blog*. October 27, 2021.

"The Nature of Interatomic Forces in Metals, 1938." *The Pauling Blog*. October 20, 2021.

"The Theoretical Prediction of the Physical Properties of Many-Electron Atoms and Ions. Mole Refractions, Diamagnetic Susceptibility, and Extension in Space, 1927." *The Pauling Blog*. October 13, 2021.

"Ava Helen Miller in Corvallis, 1921–1923." *The Pauling Blog*. October 6, 2021.

"Ava Helen's OAC." *The Pauling Blog*. September 29, 2021.

"Pauling's OAC: Super Senior Year." *The Pauling Blog*. September 22, 2021.

"Ph.D. Candidate Has New Book Review." *Oregon State University History and Philosophy of Science Blog*. July 27, 2020.

"Cancer and Vitamin C: Crossroads of New Research." *The Pauling Blog*. July 7, 2021.

"Cancer and Vitamin C: A Major Conference." *The Pauling Blog*. June 23, 2021.

"Cancer and Vitamin C: The Mayo Clinic Trial." *The Pauling Blog*. June 16, 2021.

"Cancer and Vitamin C: Misnomers and More." *The Pauling Blog*. June 9, 2021.

"Cancer and Vitamin C: A Review of the Book." *The Pauling Blog*. May 26, 2021.

"Optimal Health and the Synthesis of Vitamin C." *The Pauling Blog*. May 19, 2021.

"Why Vitamin C? The Scurvy Connection." *The Pauling Blog*. May 12, 2021.

"Why Vitamin C? Cancer Fighting Properties." *The Pauling Blog*. May 5, 2021.

"Reading 'Cancer and Vitamin C'." *The Pauling Blog*. April 28, 2021.

"M.A. Student, Celia Oney, Presents at Columbia History of Science Group Annual Conference." *Oregon State University History and Philosophy of Science Blog*. April 14, 2021.

"Vitamin C and Health: New Frontiers." *The Pauling Blog*. April 7, 2021.

"Pauling's Study of Schizophrenia: Pulling Back." *The Pauling Blog*. March 31, 2021.

"Pauling's Study of Schizophrenia: Clashes with Jean Mayer." *The Pauling Blog*. March 24, 2021.

"Aimee Dávila Hisey, History and Philosophy of Science Ph.D. Candidate has Book Review Published." *Oregon State University History and Philosophy of Science Blog*. March 18, 2021.

"Pauling's Study of Schizophrenia: A Hearing Before the Connecticut State Senate." *The Pauling Blog*. March 17, 2021.

"Pauling's Study of Schizophrenia: The Media." *The Pauling Blog*. March 10, 2021.

"Pauling's Study of Schizophrenia: Support." *The Pauling Blog*. March 3, 2021.

"Pauling's Study of Schizophrenia: Pushback." *The Pauling Blog*. February 24, 2021.

"Pauling's Study of Schizophrenia: A Program of Work." *The Pauling Blog*. February 17, 2021.

"Pauling's Study of Schizophrenia: A New Model Vitamin." *The Pauling Blog*. February 10, 2021.

"Pauling's Study of Schizophrenia: Origins from Hoffer and Osmond." *The Pauling Blog*. February 3, 2021.

2020

"Pauling's Seventh Paper on the Nature of the Chemical Bond." *The Pauling Blog*. December 23, 2020.

"Pauling's Sixth Paper on the Nature of the Chemical Bond." *The Pauling Blog*. December 16, 2020.

"Pauling's Fifth Paper on the Nature of the Chemical Bond." *The Pauling Blog*. December 8, 2020.

"Pauling's Fourth Paper on the Nature of the Chemical Bond." *The Pauling Blog*. December 2, 2020.

"Pauling's Third Paper on the Nature of the Chemical Bond." *The Pauling Blog*. November 18, 2020.

"PhD Candidate is Awarded Two Nationally Competitive Grants." *Oregon State University History and Philosophy of Science Blog*. November 17, 2020.

"Pauling's Second Paper on the Nature of the Chemical Bond." *The Pauling Blog*. November 11, 2020.

"Pauling's First Paper on the Nature of the Chemical Bond." *The Pauling Blog*. November 4, 2020.

"Pauling's OAC: A New Decade." *The Pauling Blog*. October 28, 2020.

"Pauling's OAC: A Maturing Relationship with Chemistry." *The Pauling Blog*. October 21, 2020.

"Pauling's OAC, 1920–21: A True Junior Year." *The Pauling Blog*. October 14, 2020.

"Two History of Science Graduate Students Win Oregon Lottery Scholarship." *Oregon State University History and Philosophy of Science Blog*. October 13, 2020.

"The 'Spanish Flu' at OAC, 1918–1919." *The Pauling Blog*. October 7, 2020.

"The Kennedy Assassination." *The Pauling Blog*. September 30, 2020.

"Pauling, Kennedy and Khrushchev: Public Interactions." *The Pauling Blog*. September 23, 2020.

"Graduate Student Experiences: A PhD Candidate's Research Trip." *Oregon State University History and Philosophy of Science Blog*. September 18, 2020.

"Pauling, Kennedy and Khrushchev: Other Letters." *The Pauling Blog*. September 16, 2020.

"Letters to Premier Khrushchev." *The Pauling Blog*. September 9, 2020.

"Letters to President Kennedy." *The Pauling Blog*. September 2, 2020.

"First Year M.A. Student Wins Prestigious Writing Award." *Oregon State University History and Philosophy of Science Blog*. July 22, 2020.

"The Soviet Resonance Controversy: Outside Views." *The Pauling Blog*. July 15, 2020.

"The Soviet Resonance Controversy: Dying Embers." *The Pauling Blog*. July 8, 2020.

"The Soviet Resonance Controversy: Pauling Fights Back." *The Pauling Blog*. June 24, 2020.

"The Soviet Resonance Controversy: Escalating the Attack on 'Bourgeois Science'." *The Pauling Blog*. June 17, 2020.

"The Soviet Resonance Controversy: Beginnings." *The Pauling Blog*. June 10, 2020.

"Pauling Supports his Resonance Theory." *The Pauling Blog*. June 3, 2020.

"What is Resonance Theory?" *The Pauling Blog*. May 27, 2020.

"Graduate School in the time of Covid-19." *Oregon State University History and Philosophy of Science Blog*. April 23, 2020.

"Interested in Nuclear History? Come Check Out OSU's Nuclear History Book Club!" *Oregon State University History and Philosophy of Science Blog*. February 26, 2020.

"Remembering Yuri Ovchinnikov, 1934–1988." *The Pauling Blog*. February 19, 2020.

"Remembering Frank Press." *The Pauling Blog*. February 12, 2020.

"Congratulations to the History of Science's Newest M.A. Graduate!" *Oregon State University History and Philosophy of Science Blog*. January 13, 2020.

2019

"Pauling, the State Department, and the Right to Travel." *The Pauling Blog*. December 18, 2019.

"Pauling and Sakharov." *The Pauling Blog*. December 11, 2019.

"Andrei Sakharov: An Overview." *The Pauling Blog*. December 4, 2019.

"Congratulations to Dr. Anna Dvorak, OSU's History of Science Newest PhD!" *Oregon State University History and Philosophy of Science Blog*. December 3, 2019.

"Lawrence Brockway, 1907–1979." *The Pauling Blog*. November 6, 2019.

"Article Published by PhD Graduate, Emily Simpson." *Oregon State University History and Philosophy of Science Blog*. October 31, 2019.

"New Program Name 7 Years in the Making: History and Philosophy of Science." *Oregon State University History and Philosophy of Science Blog*. October 1, 2019.

"The Lenin Peace Prize: Aftermath." *The Pauling Blog*. September 11, 2019.

"Pauling's Receipt of the Lenin Peace Prize." *The Pauling Blog*. September 4, 2019.

"Remembering Barbara Low." *The Pauling Blog*. July 17, 2019.

"Ideologies and U.S. Foreign Policy International History Conference: Day 2 Coverage." *History News Network*. June 16, 2019.

"Donald Trump and Ideology: Dr. James Lindsay Delivers the Governor Tom McCall Memorial Lecture." *History News Network*. June 16, 2019.

"Master's Student Receives Prestigious Writing Award." *Oregon State University History and Philosophy of Science Blog*. May 16, 2019.

"The Collapse of Nuclear Disarmament and Nonproliferation Flash Panel." *Oregon State University History and Philosophy of Science Blog*. February 27, 2019.

"Public Oral History Interview with Downwinder Trisha Pritikin." *Oregon State University History and Philosophy of Science Blog*. January 15, 2019.

2018

"Dr. Anita Guerrini Retires." *Oregon State University History and Philosophy of Science Blog*. December 8, 2018.

"Dr. Anita Guerrini Wins Prestigious Pfizer Prize." *Oregon State University History of Science and Philosophy Blog*. November 27, 2019.

"Biodiversity and The History of Scientific Environments." *Oregon State University History and Philosophy of Science Blog*. November 11, 2019.

2017

"Informal Consultation on Post-Elimination Surveillance of Neglected Tropical Diseases." As Special Rapporteur, June 13–14, 2017, Siem Reap, Cambodia. *World Health Organization, Western Pacific Regional Office*.

Listed as Miriam Breugh

"Expert Consultation to Accelerate Elimination of Asian Schistosomiasis." As Special Rapporteur, May 22–23, 2017, Shanghai, China. *World Health Organization, Western Pacific Regional Office*.

Listed as Miriam Breugh

"Expert Consultation to Accelerate Control of Foodborne Trematode Infections, Taeniasis and Cysticercosis." As Special Rapporteur, May 17–19, 2017, Seoul, Republic of Korea. *World Health Organization, Western Pacific Regional Office*.

Listed as Miriam Breugh